IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



In re Patent Application of

JELBERT

Serial No. 09/837,542

Filed: April 19, 2001

Atty. Ref.:

550-224

Group:

2152

Examiner:

August 8, 2001

Assistant Commissioner for Patents Washington, DC 20231

For: GRAPHICAL DATA WITHIN DOCUMENTS

SUBMISSION OF PRIORITY DOCUMENTS

Sir:

It is respectfully requested that this application be given the benefit of the foreign filing date under the provisions of 35 U.S.C. §119 of the following, a certified copy of which is submitted herewith:

Application No.	Country of Origin	<u>Filed</u>		
9910683.3	GREAT BRITAIN	7 May 1999		
9910684.1	GREAT BRITAIN	7 May 1999		
9910679.1	GREAT BRITAIN	7 May 1999		
9910682.5	GREAT BRITAIN	7 May 1999		
9910685.8	GREAT BRITAIN	7 May 1999		

Respectfully submitted,

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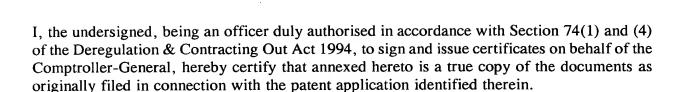
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The Patent Office Concept House Cardiff Road Newport South Wales NP10 8QQ



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Dated 14 MAY 2891

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Request for a grant of a patent

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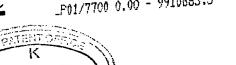
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ι.	Your reference	P/6836.GB	07 M	1AY 1999			
<u> </u>	Patent application number (The Patent Office will fill in this part)	(0 7 MA	9910683.3	 383.3			
3.	Full name, address and postcode of the or of each applicant (underline all surnames)	Argo Interactive Li 7 Dukes Court Chichester West Sussex PO19 2FX	imited	-			
	Patents ADP number (if you know it)	7606734	od				
	If the applicant is a corporate body, give the country/state of its incorporation	United Kingdom	3				
١.	Title of the invention	Data Processing Ap	pparatus				
				, , , , , , , , , , , , , , , , , , ,			
5.	Name of your agent (if you have one)	D YOUNG & CO					
	"Address for service" in the United Kingdom to which all correspondence should be sent (including the postcode)	21 NEW FETTER LONDON EC4A 1DA	LANE				
př.	Patents ADP number (if you have one)	59006		-			
. ^	If you are declaring priority from one or more earlier patent applications, give the country and date of filing of the or each of these earlier applications and (if you know it) the or each application number	Country	Priority application number (if you know it)	Date of filing (day/month/year,			
7.	If this application is divided or otherwise derived from an earlier UK application, give the number and filing date of the earlier application	,					

8.	Is a statement of inventorship and of right to grant of a patent required in support of this request? (Answer 'Yes' if: a) any applicant named in part 3 is not an inventor, or b) there is an inventor who is not named as an applicant, or c) any named applicant is a corporate body. See note (d))	Y	es		•		•				C
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	Claims(s)	0									
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10.	If you are also filing any of the following, state how many against each item.										
	Priority documents	0	٠						, .		
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	Statement of inventorship and right to grant of a patent (Patents Form 7/77)	0									
	Request for preliminary examination and search (Patents Form 9/77)	0									
	Request for substantive examination (Patents Form 10/77)	0					-				
	Any other documents (please specify)	0									
11.		I/W	'e requ	est the	gran	t of a pate	nt on the	basis of the	nis applica	tion.	
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Agents for the Applicants

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N A J Robinson

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Provisional Patent Application

P/6836.43

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A System for Optimising Hypertext Links

Overview:

A majority of information currently available in HTML and other mark-up languages has been designed for display on a Desktop Computer Monitor of a typical resolution of 640 by 480 or 1024 by 768 pixels. A typical small screen device only has a resolution of 120 by 90. This system has been designed to re-process the original document into a format that will be easier to interpret and understand on a small screen device.

This system has been designed for the purposes of converting information published in a hypertext mark-up language, to a format more suitable for small screen device. In a typical installation, the hypertext language would be HTML and the destination device would be PDA (Personal Digital Assistant) or Mobile phone.

The system can be used on any mark-up language and work both locally as well as across a network.

Problem:

When viewing a hypertext document, it is often the case that the hypertext document can contain a high number of hypertext links to other hypertext documents. In many circumstances, only a small subset of these would actually be used, and the rest would be redundant.

Removing these redundant links would increase the navigability of the hypertext document by providing the user with the links that the user would want.

S lution:

Argo proposes a system of computer software, through which users are required to fetch hypertext documents that they wish to read. Typically, this is in the form of an intermediate 'proxy server' but a stand-alone mode of operation can also be envisaged. The system processes hypertext pages as they are transferred from the storage location to the reader, modifying parts, recording what it has found, and performing other tasks.

Hypertext documents normally contain links to further hypertext information allowing traversal through information. Argo's system analyses these links and using a variety of techniques removes hypertext links from the document.

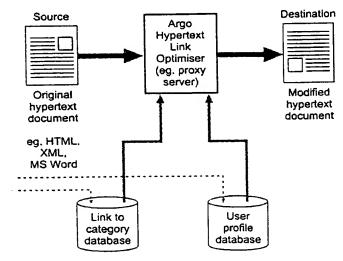
Some suggested techniques are:

- · Removal based on the link's category, and the user's profile;
- · Removal based on previous users' selections through the hypertext document;
- · Removal based on a global setting;

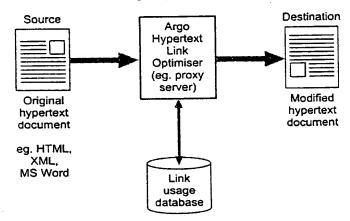
A System for optimising Hypertext information

A combination of the above techniques can also be used.

For the first technique, if the user's profile indicates that they are interested in transport and bird watching, then links relevant to transport and bird watching are kept, while links to non-transport and non-bird watching related hypertext documents are removed. This system is shown in the following diagram:



In the second technique, a learning algorithm such as a genetic algorithm or a neural network could be employed to learn what links users are more likely to visit. Such a system would limit the number of hypertext links, and display those that are most commonly chosen. A hypertext document that has not been viewed before would have links chosen at random. If the user wishes to see links that are not present, then the user can inform the system to choose different links. When a user chooses a hypertext link, the system stores that, and uses the information the next time a user visits that hypertext document. In order not to stagnate the links (ie. the user is never presented with the same links repeatedly), the system could choose the most common links, plus a small number randomly chosen from the rest. This is shown in the following diagram:



In the third technique, a system manager could configure the system to emphasise certain links, using a system such as automatic categorisation. This is shown in the following diagram:

